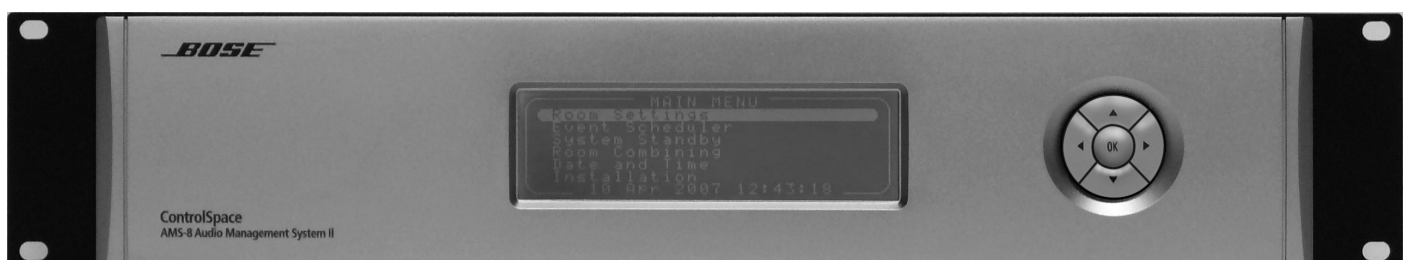


BOSE® ControlSpace™ AMS-8 Audio Management System

User Guide

BOSE



The manufacturer reserves specification privileges. Information in this manual is subject to change without prior notice or obligation.

Der Hersteller behält sich das Recht vor, Änderungen im Sinne des technischen Fortschritts durchzuführen, die u.U. noch nicht in dieser Bedienungsanleitung berücksichtigt wurden.

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Introduction

The Bose ControlSpace™ AMS-8 Audio Management System is a flexible, expandable and high quality audio signal processor for audio distribution applications such as restaurants, shops, bars, offices, hotels, conference facilities and sport venues. The main unit includes eight line inputs and eight line outputs. Four available audio slots allow the addition of up to 8 more audio inputs (2 inputs per card).

For more zones, up to 10 AMS-8 system racks can be used per system. Each added system rack adds 8 zones to the system. Multiple choices of user interfaces are available to provide end-users a simple, easy-to-use operation of their ControlSpace AMS-8 system.

The Bose ControlSpace™ AMS-8 Live Installer software is used to design systems and configure the AMS-8 and user interfaces. The software runs on a PC and communicates with the AMS-8 system using serial communication (RS232), or optional via ethernet (requires PC Kit)

Features and functions

- Expandable and flexible cardframe architecture
- 8 (up to 16) analogue line level input channels
- Eight analogue line level output channels
- GPIO: 8 general purpose control inputs (to activate messages, roomcombining presets or room standby) and 1 general purpose control output
- Design, configuration and system control via PC-based software programs
- Digital signal processing including: Bose speaker EQs, Dynamic EQ, delay, gain control and source selection
- LCD screen and navigation buttons
- Wall Controller (optional)
- IR remote to control wall controller (optional)
- Local Input Module (optional)
- Paging functionality (optional Paging panel is required)
- Messaging functionality (optional Message Storage Card is required)
- Tuner functionality (optional Twin Tuner Card is required)
- Automatic detection of input card type
- Room Combining functionality
- Event Scheduling functionality

2. ControlSpace™ AMS-8 System rack control



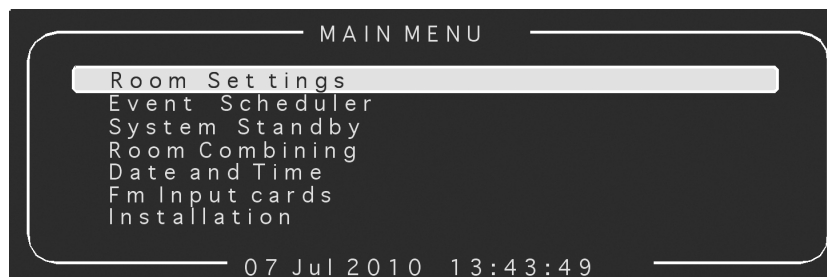
1. LCD SCREEN

The LCD screen shows the menu items with the settings per menu item. The language of all displayed items can be changed between English, Dutch, Danish, Swedish, Polish, Italian, Spanish, German and French. Language selection is only available in the installation menu.

2. NAVIGATION BUTTONS

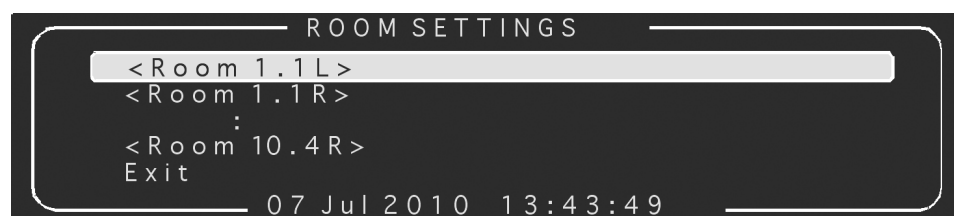
With the up- and down buttons one can scroll through the menu items and with the left- and right buttons one can change the values of the selected menu item. The OK button functions as the enter button on a keyboard. By pressing OK when e.g. the 'Room Settings' menu item is highlighted, one enters the Room Settings menu.

MAIN MENU

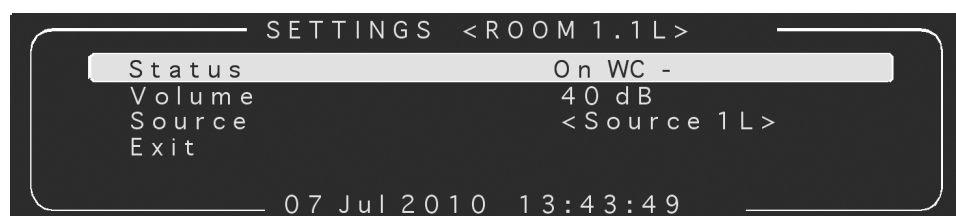


In the MAIN MENU one can select the item which needs to be changed, adjusted or activated.

ROOM SETTINGS MENU

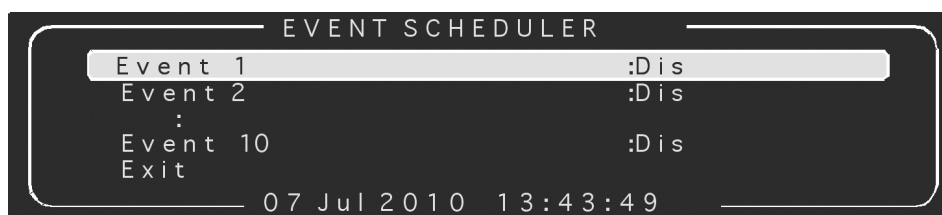


In the ROOM SETTINGS menu one can select the specific room which needs to be changed.



In this submenu of the ROOM SETTINGS menu one can turn the room on or off by changing the status and one can change the volume level and the source selection of the selected room. This submenu also shows the status of the room and the status of the communication/connection to the optional wall controller. 'Status On' means that a source is selected. The connection status is shown by 'WC-' or 'WC+'. WC- means that there is no communication with a Wall Controller in that room, e.g. no Wall Controller is connected. WC+ means the system recognized a connected Wall Controller in that room.

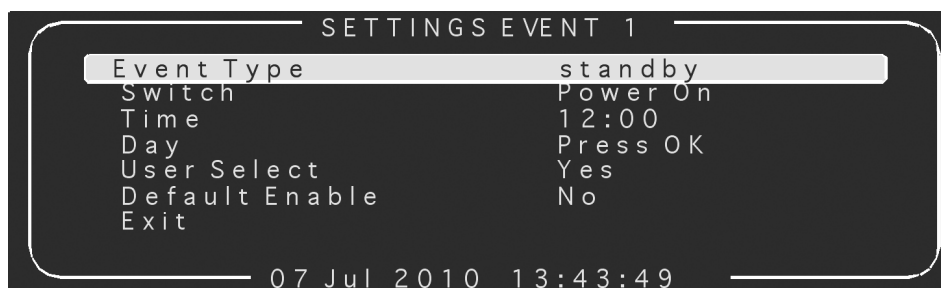
EVENT SCHEDULER MENU



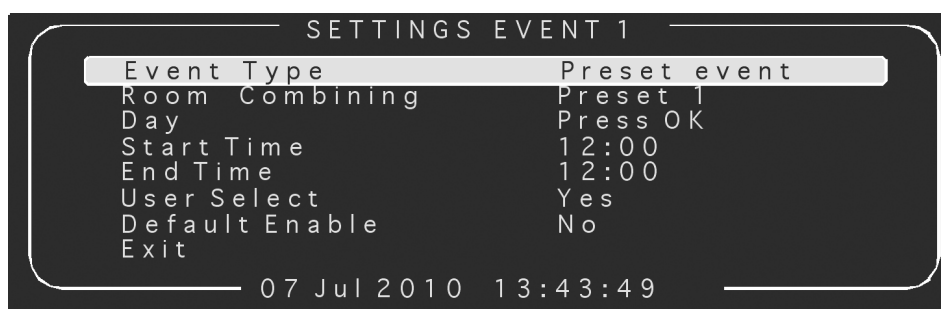
In the event scheduler menu a pre-configured event can be selected. The settings of the first 10 (of 40) (pre-configured) events can also be changed in this part of the menu. Examples of events are: Turn the system rack on at Monday 08:00, Page a certain message every Wednesday at 15:00.

The following Event types are available:

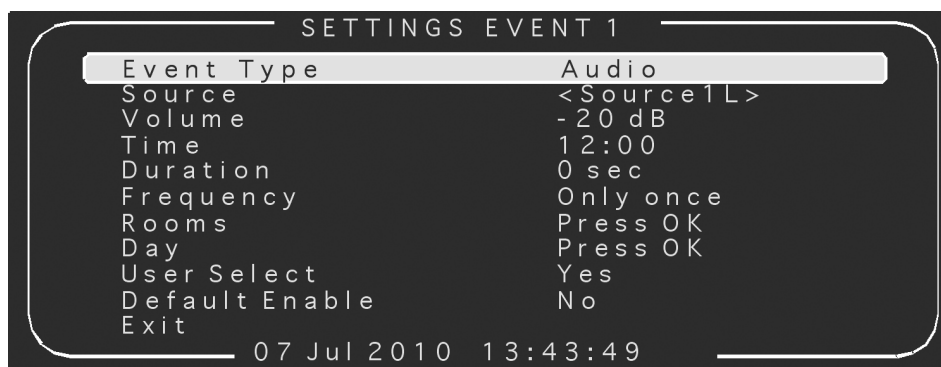
- System Standby
- Room Combining Preset
- Audio event
- Message event
- Switch event



Event to (de-)activate System Standby



Event to activate a Room Combining preset



Event to temporary change to another Audio input

SETTINGS EVENT 1

Event Type	Message
Source	Message1
Time	12:00
Frequency	Only once
Rooms	Press OK
Day	Press OK
User Select	Yes
Default Enable	No
Exit	

07 Jul 2010 13:43:49

Event to activate pre-recorded messages

SETTINGS EVENT 1

Event Type	Switch
Switches	Channel
Source	<Source1L>
Duration	0 sec
Rooms	Press OK
Day	Press OK
Time	12:00
User Select	Yes
Default Enable	No
Exit	

07 Jul 2010 13:43:49

Event to Switch between different sources or to turn a room on or off

For those event types wherein one can select a room or a day, the following sub menus are shown:

DAYS FOR EVENT 1

Sunday	No
Monday	No
Tuesday	No
Wednesday	No
Thursday	No
Friday	No
Saturday	No
Exit	

07 Jul 2010 13:43:49

Select the required days for the event.

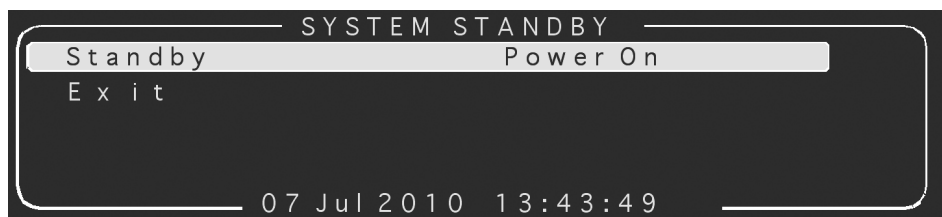
ROOMS FOR EVENT 1

<Room 1.1L>	No
<Room 1.1R>	Yes
:	
<Room 10.4R>	No
Exit	

07 Jul 2010 13:43:49

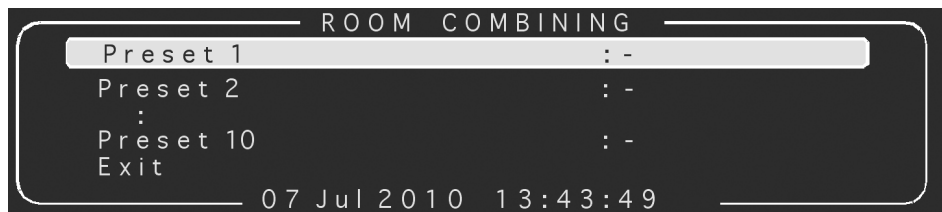
Select the required rooms for the event.

SYSTEM STANDBY MENU

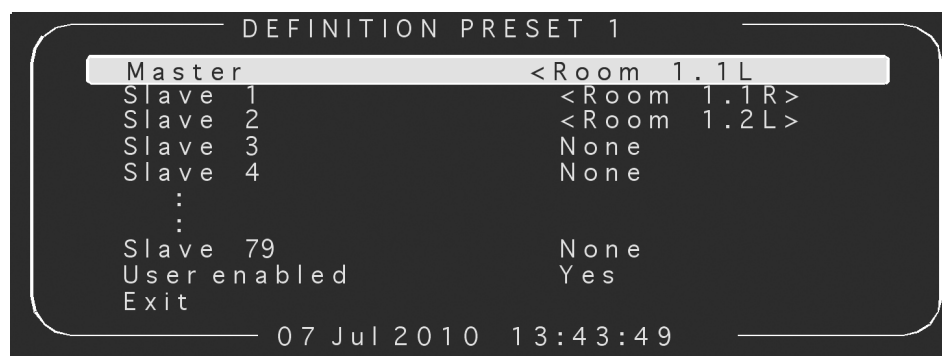


In the SYSTEM STANDBY menu one can put the system in standby.

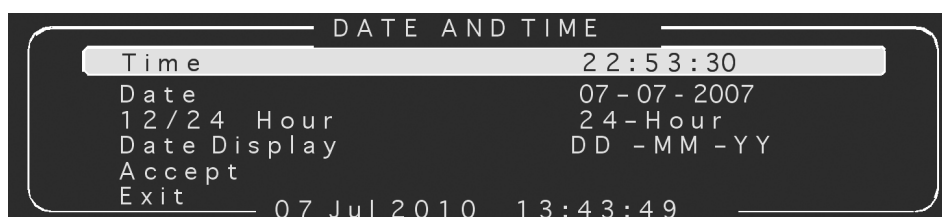
ROOM COMBINING MENU



In the ROOM COMBINING menu one can turn on one or more pre-configured room combining presets. The settings of the first 10 (of 40) (pre-configured) presets can also be changed in this part of the menu, see below submenu.

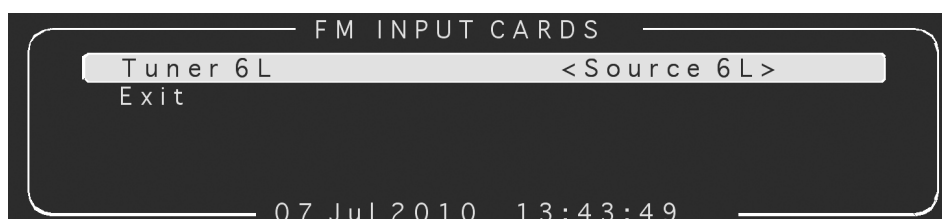


DATE AND TIME MENU

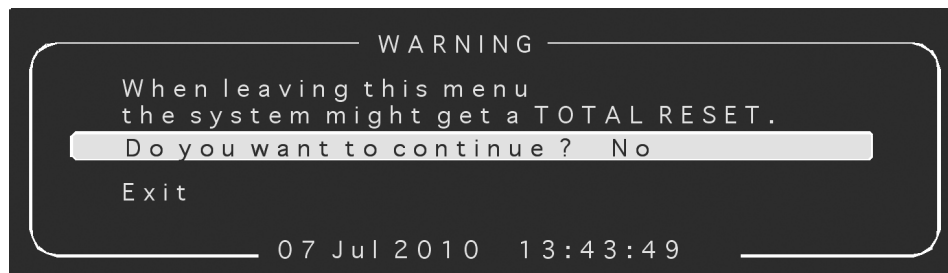


In the DATE AND TIME menu one can change date and time and presentation formats of the date and time.

FM INPUT CARDS MENU



In this menu one can select another Tuner preset (only if Tuner Card is installed)



Select yes to proceed and select another FM-preset



In this submenu one can select another FM-preset

INSTALLATION MENU



Via the 'INSTALLATION' item of the main menu the INSTALLATION MENU can be entered.

To get access to the installation menu of the system rack a 4 digit pin code needs to be entered.

This menu is only available for authorized people (e.g. Installer or Bose Professional Systems engineer)

3.1 ControlSpace™ AMS-8 Wall Controller (CS-WC)

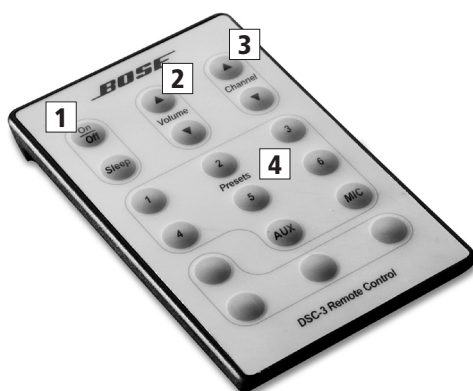


- 1. LCD SCREEN** - Screen to control Wall Controller.
The LCD screen shows the selected channel and volume.
- 2. VOLUME BUTTONS** - Buttons to change the volume level
- 3. CHANNEL BUTTONS** - Buttons to switch between channels/sources

The ControlSpace™ AMS-8 Wall Controller has a built-in infrared receiver so a remote control may be used (see chapter 3.2)

3.2 ControlSpace™ AMS-8 Remote control (CS-RC)

This infrared remote control allows users to operate the ControlSpace AMS-8 Wall Controller from a distance.



- 1. ON / OFF BUTTON** - Button to switch the wall controller on or off.
- 2. VOLUME BUTTONS** - Buttons to change the volume level for the room where in the wall controller is installed.
- 3. CHANNEL BUTTONS** - Buttons to change between channels/ sources for the room in which the wall controller is installed.
- 4. SOURCE BUTTONS** - Buttons to directly select a source/ channel for the room in which the wall controller is installed.

3.3 ControlSpace™ AMS-8 Local Input Module (CS-LIM)

The ControlSpace AMS-8 Local Input Module allows to use the central sound system for sound sources that can be plugged in locally, e.g. a CD player, a microphone or a laptop for a presentation or movie. The level of the microphone gain can be adjusted.



1. AUDIO INPUT (RCA) – Input Left and Right for a local audio source input

2. MICROPHONE INPUT (XLR) – Input socket for a local microphone

3. MICROPHONE GAIN ADJUSTER – Adjuster to adjust the gain

Turn the adjuster anti clockwise to decrease the gain with a minimum of 32dB.

Turn the adjuster clockwise to increase the gain to a max of 66dB. The factory gain setting is 38dB.

If one uses the audio and the microphone input, both signals will be audible.

The CS-LIM can be configured so the inputs are available in all rooms or only in the specific room where it is installed.

3.4 ControlSpace™ AMS-8 Paging Panel (CS-PP)

1. ROOM SELECTION BUTTONS – By pressing a room button one selects a specific room or zone (group of zones) for paging. The indicator (led) next to the button lights up green when it is selected.

Room blocking: By pressing a room button for 2 seconds, the indicator next to it will light up red. This means this room is now blocked for paging. Press the same button again for 2 seconds to release the 'block' situation.

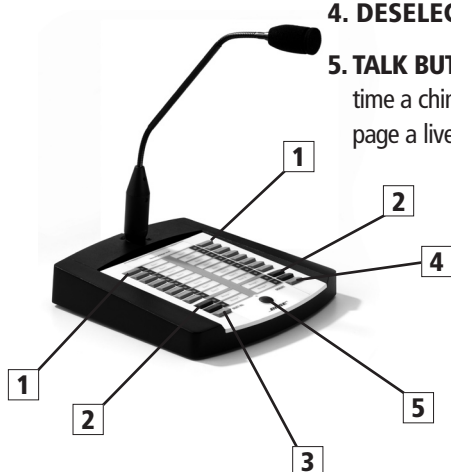
2. MESSAGE BUTTONS – One can page a pre-recorded message by first selecting the required room(s) followed by pressing the appropriate message button. To stop a playing message, one should press the same message button again. The paging function still has a higher priority: during a pre-recorded message announcement the microphone can be used to override this message.

This function is only available if the optional message storage card is installed and pre-recorded messages are stored on this card.

3. SELECT ALL BUTTON – By pressing the 'select all' button all rooms are selected (except the blocked rooms).

4. DESELECT ALL BUTTON – By pressing the 'deselect all' button all rooms are deselected.

5. TALK BUTTON – After pressing the talk button the indicator just above this button lights up red, at the same time a chime signal is activated and routed the selected rooms. As soon as this indicator turns green one can page a live spoken message, as long as the button is pressed. Releasing this button will stop the paging.



4. Privileged user software

PC requirements

Minimum requirements for
ControlSpace™ AMS-8 Privileged User Software:

- Hardware:

Minimum 1Ghz Pentium based PC
256MB free RAM
CD ROM player
50MB free internal Hard disk space

- Operating system(s)

Windows 2000, Windows XP and higher

- Display

Minimum 1024x768 resolution, 16 bit color (32 bit recommended)

- Com Port requirements

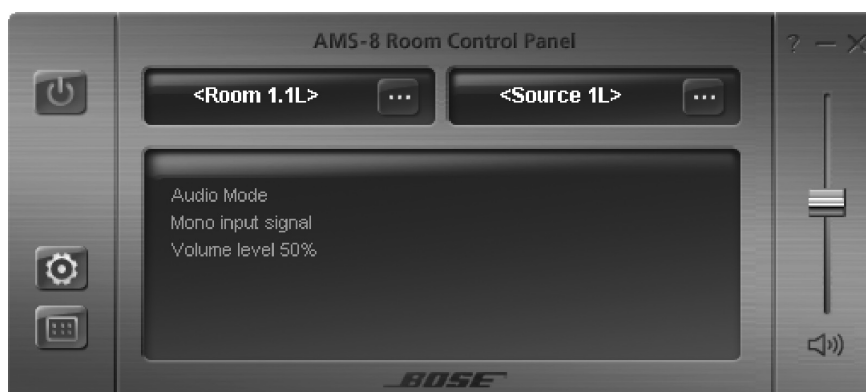
Com Port 1 to 4 only

4.1 Room Control

Room Control can be used to change the source and volume settings of a room.

This module contains 3 displays, showing:

1. the selected room (left display)
 2. the selected source (right display)
 3. a listing of available sources and rooms, depending on the button pressed.
- When no button is pressed, the third display shows the actual status of the room.



Press this button to turn a room on/off



Settings button (Pin-code protected)



Button to open all modules (Paging panel & Presets/Events, only available in Multi User Mode)



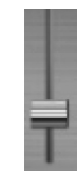
Room select: Press this button at the left to select another room to control (only available in Multi User Mode)



Select: Press this button at the right to select another source to listen to



Minimize/Close button



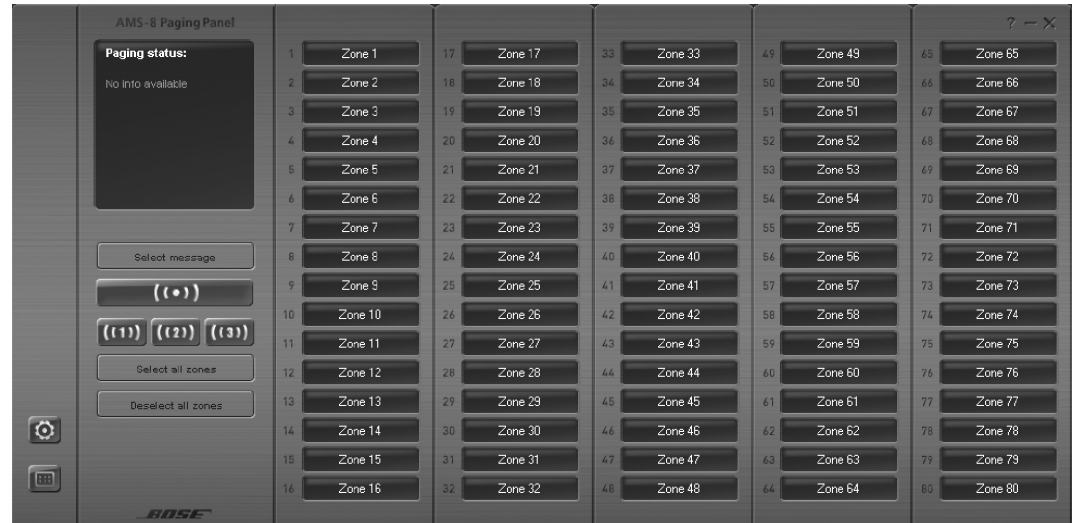
Volume fader: Move this fader to adjust the level in the room, shown on the display



Mute: Press this button to mute the source (only available in Single User Mode)

4.2 Paging Panel

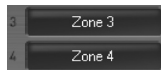
The paging panel can be used to page into one or more rooms/zones by using a separate microphone. This panel can also be used to send a pre-recorded message (or commercial or music track) into one or more selected rooms/zones (only in combination with ControlSpace™ AMS-8 Message Storage Card).



Press this button to turn a room on/off



Settings button (Pin-code protected)



Zone button: Press to select a room/zone (button turns into green).

Press and hold until the button changes to red, to block a room/zone for paging/ messaging



Message select: Push this button to select a message listed in the Status Display



Push to talk: Press this button to make a page into the selected room(s)/ zone(s) (a chime signal will be played before the microphone will be released for paging)



Push to talk: Up to 3 extra 'push to talk' buttons can be assigned to allow paging at different paging levels.



Press this button to select all zones at once



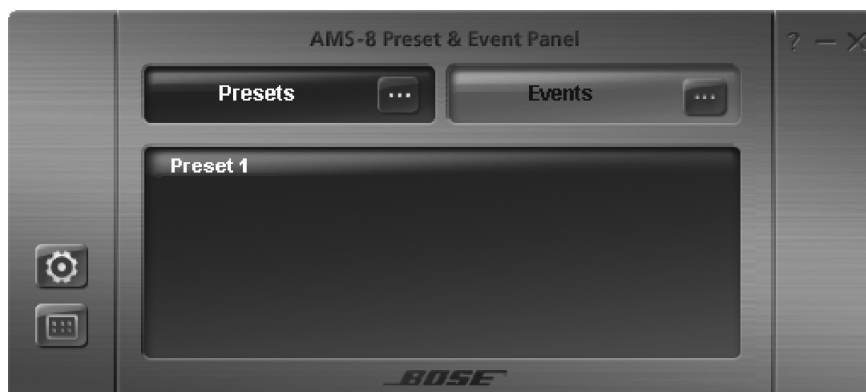
Press this button to deselect all zones at once



Paging/Message Status display: Shows the status of paging and messaging of the whole system, also if a page or message is activated from another user interface, e.g. a hardware paging panel or via the ControlSpace™ AMS-8 Event Scheduler.

4.3 Room Combining

This module can be used to activate up to 40 Room Combining presets. All programmed presets will be listed in the status display (the lowest display in the picture below). To activate: Click on one of the listed presets. A highlighted preset indicates that these are active at the moment. When a red indicator is shown in front of a preset, one can not (de-)activate this preset (User disabled or blocked due to room overlap). One is able to configure 10 of the 40 Room Combining presets and the user ability to control these on the AMS-8 system rack. All other Room Combining presets can only be configured by your system installer.



Settings button (Pin-code protected)



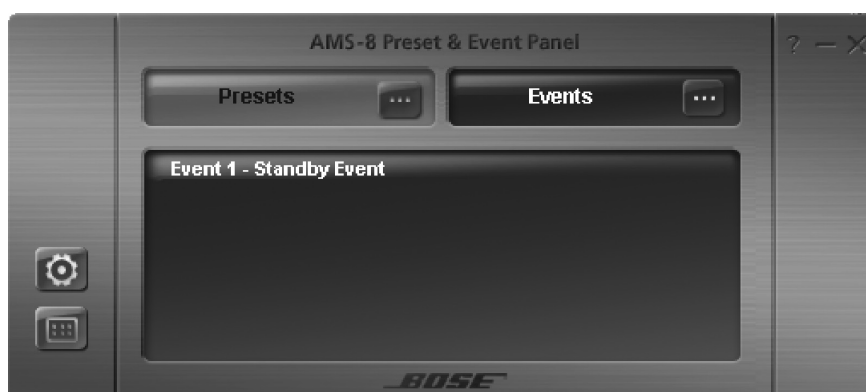
Button to open all modules (Paging panel & Presets/Events, only available in Multi User Mode)



Preset select: Press this button (at the left) to (de-)activate another preset

4.4 Event Scheduler

This module can be used to activate up to 40 events from the Event Scheduler. All programmed events will be listed in the status display (the lowest display in the picture below). To activate: Click on one of the listed events. A highlighted event indicates that these are active at the moment. When a red indicator is shown in front of an event, one can not (de-)activate this event (User disabled or blocked due to room overlap). The user is able to configure 10 of the 40 events and the user ability to control these on the AMS-8 system rack. All other events can only be configured by your system installer.



Settings button (Pin-code protected)



Button to open all modules (Paging panel & Presets/Events, only available in Multi User Mode)



Preset select: Press this button (at the left) to (de-)activate another preset

5. Troubleshooting

No paging/dingdong from user software	Check cabling between PC-soundcard, microphone and system rack. Check the volume settings of the PC-soundcard
No control/communication from CS-WC/CS-PP: - CS-WC displays: 'Check connections' > - CS-PP: Talk-LED blinks between red and green >	Check the cabling between CS-WC/CS-PP and the system rack. In the room settings menu of the system rack, the status of the wall controller is shown. If it shows 'WC-', then there is no communication to the specific wall controller. 'Check-connections' indicates a failure in the communication (cable) to the Wall Controllers. A red to green blinking Talk-LED indicates a failure in the communication (cable) to the paging panel
No communication/control between PC and AMS-8 system rack when using the Privileged User Software	Check the RS232 cable between Computer and AMS-8 system rack. Reduce the length of the cable (10m max.). If a PC-Kit is used: Restart the software. Check the LAN connection between computer and the AMS-8 system rack. If the connection is ok and after restart messages like "No System Rack Found" are still being displayed, please contact your Bose Professional Systems dealer

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